

Recombinant Mouse scavenger receptor class B, member 2, His-tagged

Cat. No. Scarb2-851M Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Mouse Scarb2 encoding the human PLAU (NP_002649.1) (Met 1-Leu 431) with a C-terminal his tag was expressed in *HEK293*.

Species Mouse

Source HEK293

ProteinLength 1-431 a.a.

Description

Plasminogen activator, urokinase, also known as PLAU and UPA, is a serine protease involved in degradation of the extracellular matrix and possibly tumor cell migration and proliferation. The human PLAU is initially synthesized as 431 amino acid precursor with a N-terminal signal peptide (20 residues). The single chain molecule is processed into a disulfide-linked two-chain molecule of different molecular weights. Two forms of the A chain exist, starting at Ser21 (the long form) and Lys156 (the short form). The long and short A chains are unique to the high and low molecular weight forms, respectively. The long A chain contains an EGF-like domain, responsible for binding of the PLAU receptor. The B chain corresponds to the catalytic domain. PLAU is a potent marker of invasion and metastasis in a variety of human cancers associated with breast, stomach, colon, bladder, ovary, brain and endometrium. A specific polymorphism in PLAU gene is implicated in late-onset Alzheimer disease and also with decreased affinity for fibrin-binding.

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Molecular Mass	The secreted recombinant human PLAU comprises 422 amino acids with a predicted molecular mass of 46 kDa. As a result of glycosylation, rhPLAU migrates as three bands corresponding to the long α chain, β chain and unprocessed full-length PLAU with the molecular mass of 18, 32 and 50 kDa respectively in SDS-PAGE under reducing conditions.
Predicted N Terminal	Ser 21.
Endotoxin	< 1.0 EU per 1g cytokine as determined by the LAL method.
Formulation	Supplied as a 0.2m filtered solution of PBS, pH7.4.
Reconstitution	Follow the instructions on the vial. Centrifuge the vial at 4°C before opening to recover the entire contents.
Purity	> 97%, as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt -70°C.
Storage	Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted and be used as soon as possible. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	<i>Scarb2 scavenger receptor class B, member 2 [Mus musculus]</i>
Synonyms	Scarb2; scavenger receptor class B, member 2; LGP85; Cd36l2; LIMP-2; MLGP85; 9330185J12Rik;LIMP II; CD36 antigen (collagen type I receptor, thrombospondin receptor)-like 2
Gene ID	12492

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mRNA Refseq	NM_007644
Protein Refseq	NP_031670
UniProt ID	O35114
Chromosome Location	5
Pathway	Lysosome
Function	protein binding; receptor activity

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